

Message Text

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ACTION EB-06

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 RSC-01 TRSE-00

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TO SECSTATE WASH DC 4025

C O N F I D E N T I A L SECTION 01 OF 02 OECD PARIS 25149

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW - IL 1091 - NUMERICAL
CONTROL MACHINING SYSTEMS.

REF: COCOM DOC. REV (74) 17

SUMMARY: THIS MESSAGE REPORTS TWO-DAY DISCUSSIONS ON NUMERICAL CONTROL ITEM. OTHER DELEGATIONS RESERVED ON SUBSTANCE OF US COUNTERPROPOSAL IN REFDOC AND ALL DESIRED REVERSION TO PRESENT ITEM FORMAT. US EXPERT SOUGHT TO REFUTE CLAIMS BY OTHER DELS CONCERNING BLOC CAPABILITY BUT IT IS CLEAR PRESSURE FOR FURTHER RELAXATION REMAINS STRONG. TECHNICAL WORKING GROUP MORNING OF OCTOBER 23 (UNDER US CHAIRMANSHIP) ACHIEVED LARGE MEASURE OF AGREEMENT AND UNDERSTANDING ON TECHNICAL ASPECTS, AND GERMANS HAVE UNDERTAKEN TO DRAFT WORKING PAPER ON POSSIBLE AN FOR 2-AXIS CNC EQUIPMENT. ACTION REQUESTED: (A) TRANSMISSION OF DRAFT REPORT BY TWG CHAIRMAN (KRATZ) FOR CIRCULATION BY USDEL AND (B) EVENTUAL REDRAFT OF US COUNTERPROPOSAL TO TAKE ACCOUNT OF ROUND I DISCUSSION. END SUMMARY.

1. US TABLED ITS COUNTERPROPOSAL WITH COMMENT THAT THE LEVEL OF CONTROL RETAINED IN THE US COUNTERPROPOSAL REFLECTS A DETAILED EVALUATION OF THE EASTERN BLOC
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CAPABILITIES IN THE NC AREA. US ALSO EXPLAINED THAT THE

US HAD RESTRUCTURED IL 1091 IN AN EFFORT TO FACILITATE CONSIDERATION BY LICENSING AUTHORITIES.

2. THE GENERAL CONSENSUS OF THE DELEGATIONS WAS THAT ALTHOUGH THE FORMAT OF THE US COUNTERPROPOSAL MAY BE CLEARER THAN THE EXISTING FORMAT, THE LICENSING AUTHORITIES HAD FINALLY BECOME ACQUAINTED WITH THE USE OF THE EXISTING FORMAT AND WOULD PREFER TO RETAIN IT.

3. THE UK, NETHERLANDS, AND JAPANESE DELEGATIONS FELT THAT BASED UPON THEIR EVALUATION OF EASTERN BLOC AND PRC NC CAPABILITIES RELAXATION OF 1091 WAS IN ORDER, ESPECIALLY IN THE AREA OF 3-AXIS CENTRAL SYSTEMS AND CNC SYSTEMS. THE UK PRESENTED FIGURES OF SOVIET DIGITAL MACHINE CONTROL SYSTEM PRODUCTION, THE NETHERLANDS QUOTED SYSTEMS BUILT IN CSSR, HUNGARY, BULGARIA, AND POLAND, AND THE JAPANESE QUOTED VARIOUS MODEL NUMBERS OF PRC NC EQUIPMENT. THE US COUNTERED WITH QUESTION OF HOW MUCH OF THE SOVIET PRODUCTION WAS EQUIPMENT PRESENTLY EMBARGOED, AND WHETHER THE VARIOUS DELEGATIONS HAD ACTUALLY SEEN BLOC 3-AXIS MACHINES PERFORMING CONTOURING WORK. THE UK AGREED THAT THE NUMBERS THEY QUOTED PROBABLY INCLUDED DIGITAL READOUT, POSITIONING, STRAIGHT LINE, AND 2-AXIS HARDWIRED CONTINUOUS PATH SYSTEMS' ALL OF WHICH ARE EXCLUDED FROM CONTROL. THE OTHER DELEGATIONS ANSWERED THAT THEIR DATA WAS MAINLY FROM BROCHURES AND CATALOGS. THE US GAVE A REPORT ON BLOC NC SYSTEMS DISPLAYED AT PARIS, MILAN, BRNO, AND HANOVER SHOWS. THE REPORT WAS WELL RECEIVED AND FURTHER COMMENT ON BLOC CAPABILITY DIMINISHED. THE US ALSO INDICATED THAT US OBSERVERS HAD SEEN IN OPERATION MANY OF THE SYSTEMS QUOTED BY THE NETHERLANDS DELEGATES.

4. JAPAN, GERMANY, FRANCE, AND NETHERLANDS FELT THAT THERE SHOULD BE SOME RELAXATION OF 2-AXIS CNC SYSTEMS DEVOTED TO CLEARLY NON-STRATEGIC EQUIPMENT SUCH AS FLAME CUTTERS, DRAFTING MACHINES, WIRING MACHINES, NIBBLING MACHINES. THE UK AND ITALY VOICED OPEN-MINDED POSITIONS AND WERE DEEPLY INTERESTED IN THE PROS AND CONS OF PERMITTING THE EXPORT OF CNC SYSTEMS.

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5. JAPAN WAS CONCERNED ABOUT THE INCLUSION OF SOFTWARE IN THE DEFINITION WHICH FRANCE THOUGHT WAS ADEQUATELY DEALT WITH IN PRESENT STATEMENT OF UNDERSTANDING. FRENCH BELIEVED THIS IS WHERE COVERAGE SHOULD REMAIN.

6. THERE WAS AGREEMENT BY ALL DELEGATIONS TO CHANGE

THE EXISTING MINIMUM PROGRAMMABLE INCREMENT FROM .002 MM

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ACTION EB-06

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C O N F I D E N T I A L SECTION 02 OF 02 OECD PARIS 25149

TO .001 MM AND CITE ONLY METRIC PARAMETER.

7. TECHNICAL WORKING GROUP MET MORNING OF OCTOBER 23 UNDER USDEL (KRATZ) CHAIRMANSHIP. TWG ATTEMPTED TO RESOLVE TECHNICAL QUESTIONS IN THE FOUR PROPOSALS (UK, JAPAN, GERMANY, AND FRANCE) AND THE US COUNTERPROPOSAL, BUT DID NOT ATTEMPT TO DEAL WITH MAJOR DIFFERENCES SUCH AS REMOVAL OF MACHINE TOOLS FROM CONTROL, FREEING 3-AXIS CONTROL SYSTEMS, OR FREEING 2-AXIS CNC SYSTEMS.

8. THE GERMAN DELEGATION AGREED TO DRAFT A PARAGRAPH ON DEFINING A 2-AXIS CNC SYSTEM IN SUCH A MANNER THAT IT COULD NOT BE EXPANDABLE TO 3 OR 4-AXIS. THE PURPOSE OF THIS DEFINITION IS TO DETERMINE IF 2-AXIS CNC SYSTEMS SPECIALLY DESIGNED FOR SUCH APPLICATIONS AS FLAME CUTTING, WIRING, NIBBLING, AND GENERAL PURPOSE 2-AXIS MACHINE TOOLS COULD BE DEFINED IN A MANNER THAT MIGHT PERMIT THEIR EXPORT UNDER ADMINISTRATIVE EXCEPTION. THE DRAFT DEFINITION IS SCHEDULED TO BE DISTRIBUTED BY THE GERMAN DELEGATION IN LATE DECEMBER BEFORE THE SECOND ROUND.

9. THE GERMAN DELEGATION DESIRED THE PHRASE "INTER-

POLATING AXES" BE SUBSTITUTED FOR "SIMULTANEOUSLY CONTROLLED AXES". THEIR CONCERN WAS THAT ONE INTERPOLATING AXIS COULD DRIVE MORE THAN ONE SERVO LOUP, E.G., SLAVE
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X-AXIS ON A GANTRY TYPE MACHINE.

10. JAPAN DESIRED A DIFFERENT METHOD OF SPECIFYING ACCURACY SINCE PRESENT ONES DO NOT FOLLOW THE NMTBA CRITERIA.

11. THE UK WITHDREW THEIR PROPOSAL IN FAVOR OF THE FRENCH PROPOSAL.

12. SPECIFIC COMMENTS TO THE US COUNTERPROPOSAL WERE
(A) OTHER MEMBERS WANTED DNC SYSTEM TO INCLUDE "ALL" OF THE COMPONENTS TABULATED IN US DRAFT, NOT "ANY";
(B) ALL OTHERS WANTED CONTROL OF THE SOFTWARE MOVED FROM THE DEFINITION TO THE STATEMENT OF UNDERSTANDING.
(C) THE NETHERLANDS WOULD LIKE A REFERENCE TO ML 18 IN THE ADMINISTRATIVE EXCEPTION HEADING.
(D). EXPERTS AGREED IN GENERAL TO ALL OF US CLARIFICATION NOTES.
(E) GERMANY AND NETHERLANDS AGREED TO THE ADDITION OF THE SPINDLE RUNOUT PARAMETER. THE NETHERLANDS DESIRED SOME CLARIFICATION OF WHERE THE MEASUREMENT WOULD BE MADE. OTHER DELEGATIONS RESERVED, PROBABLY TO CHECK LEVEL OF CUTOFF OF THE PARAMETER.
(F) ALL EXPERTS AGREED TO ELIMINATION OF THE MAXIMUM FEEDRATE PARAMETER.
(G) IN THE STATEMENT OF UNDERSTANDING THE NETHERLANDS DESIRED THE INSERTION OF THE WORD "FREELY" IN FRONT OF "PROGRAMMABLE MEMORY DEVICES" IN THE DEFINITION OF A HARDWIRED UNIT. THEIR REASON WAS TO PERMIT THE INCLUSION OF PROMS IN A HARDWIRED UNIT.
(H) THE GERMAN EXPERTS DESIRED THE ADDITION OF THE WORD "COMPUTER" IN THE DEFINITION OF A DNC SYSTEM. THEY FELT A SYSTEM THAT MET THE DEFINITION COULD BE CONFIGURED WITHOUT A COMPUTER.
(I) WITH THE CHANGES IN F AND G THE NETHERLANDS, GERMANY, AND UK ACCEPTED THE STATEMENT OF UNDERSTANDING; JAPAN WANTED TO STUDY IT MORE AND FRANCE AGREED WITH RESERVE.

13. US IS NOW TO REVISE ITS COUNTERPROPOSAL FOR SUBMISSION BEFORE SECOND ROUND TO REFLECT PLENARY AND
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WORKING GROUP DISCUSSIONS AND DRAFT GERMAN PROPOSAL
SCHEDULED TO BE AVAILABLE IN DECEMBER AS NOTED ABOVE.
TWG CHAIRMAN IS ALSO TO PREPARE DRAFT SUMMARY REPORT OF
OCT. 23 MEETING FOR CLEARANCE BY INTERESTED DELS AND
PUBLICATION BY SECRETARIAT.

14. ACTION REQUESTED: AS DETAILED IN PARA. 13.
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